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Subject:
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam
Area 2 – Plainwell Dam to Otsego City Dam (Otsego City Impoundment)
Area 3 – Otsego City Dam to Otsego Dam (Former Otsego Impoundment)
April 2012

SEDIMENTS

Dear Jim:

Date:
May 11, 2012

Attached is the 62nd monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/Feasibility Study (SRI/FS). This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

Contact:
Michael J. Erickson, P.E.

Sincerely,

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michael.erickson@arcadis-us.com



Our ref:
B0064539.0003.00014
#2

Michael J. Erickson, P.E.
Vice President

Attachment

Copies:
Michael Berkoff, USEPA
Sam Borries, USEPA
Paul Bucholtz, MDEQ
Sharon Hanshue, MDNR
Jeff Keiser, CH2M HILL
Todd Goeks, NOAA
Jessica Winter, NOAA
Richard Gay, Weyerhaeuser Company
Martin Lebo, Ph.D., Weyerhaeuser Company
Kathy Huibregtse, ENVIRON
Garry Griffith, P.E., Georgia-Pacific LLC

**MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)
AREA 2 (PLAINWELL DAM TO OTSEGO CITY DAM – OTSEGO CITY IMPOUNDMENT)
AREA 3 (OTSEGO CITY DAM TO OTSEGO DAM – OTSEGO IMPOUNDMENT)**

REPORT #62, APRIL 2012

**PREPARED BY ARCADIS
MAY 11, 2012**

ON BEHALF OF GEORGIA-PACIFIC LLC

SUBMITTED TO

**JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, and 3**

REPORT #62, APRIL 2012

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On April 2, Dr. Sean Kennedy of the University of Ottawa hosted a webinar regarding his avian PCB sensitivity research results. Representatives of United States Environmental Protection Agency (USEPA), United States Fish and Wildlife Service (USFWS), Michigan Department of Natural Resources (MDEQ), and Michigan Department of Natural Resources (MDNR) participated.
- On April 2, the USEPA approved the archived Area 2 soil and sediment samples proposed for supplemental non-PCB analysis.
- On April 10, representatives from USEPA, the MDEQ, Georgia-Pacific, and ARCADIS participated on a conference call to discuss the incorporation of USEPA requests into the *Area 1 Alternatives Screening Technical Memorandum* (Area 1 ASTM).
- On April 10, ARCADIS transmitted slides to USEPA from Dr. Kennedy's April 2 presentation entitled "Predicting the Sensitivity of Avian Species to the Embryotoxic Effects of PCBs" to USEPA, USFWS, MDEQ, and MDNR.
- On April 10, ARCADIS forwarded to MDEQ a link to an ftp site containing Area 3 georeferenced historical aerials.
- On April 10, ARCADIS forwarded to USEPA responses to USEPA's comments/recommendations from the March 13 meeting regarding the Area 1 ASTM.
- On April 12, USEPA forwarded to ARCADIS the Operable Unit (OU) 5 cost recovery package for 2011. The package was received on April 16.
- On April 16, ARCADIS electronically submitted to USEPA the draft Area 1 ASTM. Hard copies were provided via overnight courier the next day.
- On April 18, USEPA forwarded to ARCADIS a Freedom of Information Act (FOIA)-requested documents list for the project.
- On April 20, John Kern requested from ARCADIS a list of species that have been genetically sequenced to date by Dr. Kennedy and list of species identified at the Site.
- On April 27, Georgia-Pacific and ARCADIS discussed USEPA's recent OU 5 cost recovery request with USEPA.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
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- On April 27, ARCADIS requested from USEPA additional information related to the OU 5 cost recovery package.
- On April 28, ARCADIS forwarded to CDM Area 1 ASTM GIS files as requested.
- Georgia-Pacific awaits the following:
 - USEPA's approval of the *Area 1 Supplemental Remedial Investigation Report*
 - USEPA's approval of *Former Plainwell Impoundment and Plainwell No. 2 Dam Area 2011 Bank Conditions Monitoring Report*
 - USEPA's approval of the revised Area 3 Supplemental Remedial Investigation/Feasibility Study Work Plan
 - USEPA's comments on the Area 1 ASTM

Data Collected and Field Activities Conducted during the Period

- On April 5, ARCADIS received the data from Prein & Newhof for the topographic survey performed in March of 12 transect locations in the former Plainwell Impoundment Area and 14 transect locations in the Plainwell No. 2 Dam Area as a part of the 2012 bank monitoring activities. Table 1 presents the survey data for the former Plainwell Impoundment Area, and Table 2 presents the survey data for the Plainwell No. 2 Dam Area.
- On April 10, ARCADIS notified USEPA about the submission of the approved selection of archived Area 2 soil and sediment samples for non-PCB analysis.
- On April 12, ARCADIS submitted the approved selection of archived Area 2 soil and sediment samples to TestAmerica Laboratories, Inc. (TestAmerica) for non-PCB analysis. Table 3 presents an inventory of the samples sent for analysis, and Table 4 presents an inventory of the samples remaining in archive.
- On April 16, ARCADIS notified USEPA of the Plainwell Impoundment TCRA Area and Plainwell No. 2 Dam TCRA Area spring activities.
- During the week of April 23, JFNew performed herbicide treatment of reed canary grass and other invasive weeds in the former Plainwell Impoundment Time-Critical Removal Action (TCRA) Area and the Plainwell No. 2 Dam TCRA Area.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Areas 1, 2, and 3**

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- On April 30, JFNew began to replant trees and shrubs in the Plainwell No. 2 Dam TCRA Area.
- On April 30, Mateco began monitoring well removal in the former Plainwell Impoundment TCRA Area.

Laboratory Data Received during the Period

- On April 2, USEPA forwarded to ARCADIS data for the Portage Creek mass, volume, PCB Surface-weighted Average Concentration (SWAC) report.
- On April 9, USEPA forwarded to ARCADIS data for USEPA's 2011 Portage Creek sediment sampling.
- ARCADIS awaits the following data from MDEQ:
 - Long-term monitoring fish tissue PCB concentration data for sampling conducted in fall 2011 (scheduled to be received in spring 2012)
 - Quarterly long-term surface water monitoring data collected since first quarter 2011

Problems

- While ARCADIS were preparing to send a selection of archived Area 2 soil and sediment samples for analysis, a number of sample jars were found to be broken, in some cases compromising the sample. As described in Table 3, the jar from one of the samples selected for further non-PCB analysis (K26914) was broken. Table 4 indicates the samples whose jars were found to be broken that remain in archive.
- Three sample jars (K26813, K26827, and K57196) from the Area 2 soil and sediment samples selected for further non-PCB analysis were broken during shipping to TestAmerica.

Actions Taken to Correct Problems

- A substitute sample (K26813) from the same core and with a similar PCB concentration was sent in place of the compromised sample (K26814), described above.
- The three samples (K26813, K26827, and K57196) contained in jars that were broken during shipping (as described above) were confirmed to be intact and suitable for analysis upon receipt by TestAmerica.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
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Developments Anticipated during the Next Two Reporting Periods

- In May, JFNew is scheduled to complete replanting trees and shrubs in the Plainwell No. 2 Dam TCRA Area and Mateco is scheduled to complete monitoring well removal in the former Plainwell Impoundment TCRA Area.
- In May/June, ARCADIS is scheduled to perform additional supplemental soil and sediment sampling in the Otsego City Impoundment (Area 2), once USEPA approves the additional supplemental soil and sediment sampling.
- In May, ARCADIS anticipates receiving non-PCB data from TestAmerica for soil and sediment samples from Area 2.
- In May, ARCADIS anticipates forwarding to USEPA and MDEQ the Area 3 Reconnaissance and Preliminary Field Sampling Plan, anticipating USEPA will approve the Area 3 SRI/FS Work Plan in May.
- In May/June, ARCADIS anticipates performing field reconnaissance in the former Otsego Impoundment once approval of the Area 3 Work Plan is received from USEPA.
- During the week of May 14, USEPA, Georgia-Pacific, and ARCADIS are scheduled to meet to discuss the project.
- In May or June, ARCADIS anticipates scheduling a preliminary Feasibility Study planning meeting once comments are received from USEPA on the Area 1 ASTM.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #62, April 2012

Table 1 — Post-Construction Bank Monitoring Transect Data at the Former Plainwell Impoundment Area

Transect	Northing	Easting	Elevation (ft)
T1	348395.9	12777644.9	712.3
	348395.6	12777641.4	711.6
	348393.9	12777639.3	710.9
	348392.5	12777637.6	710.4
	348391.0	12777636.3	710.2
	348373.0	12777623.4	709.2
	348379.8	12777626.8	709.4
	348244.1	12777501.1	710.1
	348232.0	12777488.1	709.1
	348224.6	12777478.9	709.9
	348221.5	12777476.9	711.4
	348219.1	12777475.6	712.4
	348216.6	12777473.7	714.6
	349260.7	12776632.6	717.9
T2	349263.3	12776639.8	717.0
	349266.9	12776645.7	715.6
	349270.2	12776650.8	713.9
	349273.3	12776655.7	712.0
	349275.8	12776658.6	710.8
	349280.1	12776661.5	710.4
	349279.6	12776665.1	709.9
	349281.0	12776666.2	709.4
	349282.6	12776674.3	708.3
	349296.3	12776689.3	707.9
	349399.4	12776863.9	710.5
	349397.7	12776861.4	710.3
	349395.6	12776856.9	709.8
	349393.3	12776852.3	709.4
	349393.0	12776851.4	708.6
	349402.5	12776870.7	710.7
	349406.7	12776877.5	710.9
	349410.3	12776882.8	711.5
	349414.2	12776888.4	712.1
T3	349416.2	12776892.0	713.0
	349380.8	12776834.8	708.1
	349386.3	12776843.6	707.9
	349690.3	12776294.4	713.5
	349691.3	12776297.1	713.1
	349694.1	12776303.1	713.0
	349698.5	12776309.2	713.0
	349702.3	12776315.1	712.5
	349706.2	12776321.6	712.1
	349709.1	12776327.5	711.7
	349714.1	12776333.4	711.3
	349718.6	12776340.1	711.1
	349720.9	12776343.3	710.8
	349722.0	12776344.4	709.8
	349722.6	12776345.1	708.9
	349725.1	12776350.6	707.4
	349728.4	12776355.2	707.3
	349740.1	12776368.6	707.0
T4	349890.7	12776613.0	712.2
	349889.6	12776611.4	712.1
	349888.5	12776608.3	711.0
	349888.0	12776608.0	710.0
	349887.6	12776606.8	709.0
	349883.8	12776602.5	706.9
	349874.2	12776580.7	708.1
	349882.5	12776593.3	707.0
	350066.0	12776125.9	711.3
	350068.0	12776128.7	711.0
	350071.8	12776132.9	710.8
	350075.0	12776137.1	710.6
	350076.7	12776138.5	710.2
	350077.1	12776139.0	709.6
	350077.9	12776139.6	708.9
	350088.1	12776152.8	705.7
	350102.2	12776168.1	705.7

See Notes on Page 4.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table 1 — Post-Construction Bank Monitoring Transect Data at the Former Plainwell Impoundment Area

Transect	Northing	Easting	Elevation (ft)
T4 (Cont.)	350082.4	12776144.8	706.2
	350312.5	12776397.7	712.6
	350311.0	12776396.3	712.3
	350307.3	12776392.2	711.1
	350304.4	12776388.9	709.6
	350302.3	12776385.7	709.7
	350301.7	12776384.6	709.5
	350300.0	12776383.1	708.8
	350298.5	12776382.0	708.6
	350276.3	12776355.9	706.9
	350290.9	12776372.2	706.9
	350292.3	12776372.7	707.3
	350404.2	12775556.7	711.7
	350410.5	12775559.9	710.9
	350419.6	12775564.6	710.1
T5	350426.5	12775568.2	709.3
	350432.5	12775571.1	708.7
	350434.2	12775572.5	707.3
	350435.1	12775572.9	705.9
	350439.3	12775574.4	705.2
	350460.9	12775589.8	704.9
	350446.4	12775583.6	705.1
	350766.5	12775725.9	710.2
	350763.1	12775723.4	709.2
	350756.9	12775721.2	708.1
	350751.5	12775718.1	707.7
	350745.4	12775715.8	707.5
	350744.3	12775715.2	707.6
	350743.1	12775715.0	707.1
T6	350741.1	12775714.4	706.7
	350734.2	12775710.0	706.3
	350706.2	12775704.6	704.7
	350727.0	12775708.7	704.7
	350681.5	12775311.1	710.6
	350687.8	12775315.3	709.2
	350697.3	12775320.1	709.0
	350705.7	12775325.2	708.5
	350709.1	12775327.5	708.4
	350716.8	12775329.8	707.1
	350718.7	12775330.3	706.4
	350720.2	12775329.7	705.7
	350724.0	12775333.5	704.8
	350743.8	12775346.9	703.6
T7	350747.0	12775337.8	703.7
	350744.7	12775343.9	703.7
	350813.6	12774803.4	710.5
	350816.4	12774803.4	710.3
	350824.2	12774802.8	707.3
	350832.9	12774804.3	706.6
	350842.7	12774804.5	706.1
	350849.2	12774804.0	705.4
	350852.3	12774804.0	704.3
	350855.5	12774804.2	703.9
	350861.7	12774804.7	702.6
	350891.0	12774805.6	701.9
	350876.4	12774805.4	700.8
T8	350730.8	12774018.4	714.7
	350729.4	12774019.7	714.0
	350722.1	12774026.1	711.7
	350714.5	12774033.3	710.1
	350706.7	12774040.0	708.7
	350701.7	12774044.0	706.6
	350697.1	12774047.6	705.0
	350696.0	12774049.6	704.6
	350694.5	12774051.5	703.8
	350692.5	12774052.9	703.0
	350684.7	12774054.2	701.4
	350672.1	12774068.0	700.5

See Notes on Page 4.

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Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table 1 — Post-Construction Bank Monitoring Transect Data at the Former Plainwell Impoundment Area

Transect	Northing	Easting	Elevation (ft)
T8 (Cont.)	350596.4	12774127.7	700.5
	350587.3	12774136.3	698.4
	350575.0	12774156.4	702.6
	350574.0	12774157.7	703.4
	350572.1	12774159.0	703.6
	350571.1	12774160.3	704.1
	350561.4	12774166.5	704.4
	350555.9	12774172.2	704.6
	350548.3	12774180.0	706.4
	350540.3	12774179.6	708.5
	350534.3	12774184.6	710.4
	350288.0	12773739.9	712.9
T9	350286.1	12773740.8	712.3
	350281.3	12773746.2	710.5
	350272.8	12773754.8	710.0
	350266.2	12773761.0	709.4
	350261.3	12773765.5	706.9
	350258.0	12773769.0	705.2
	350255.8	12773771.3	702.9
	350254.5	12773772.0	701.2
	350252.7	12773772.7	700.6
	350248.5	12773776.0	698.7
	350231.3	12773802.9	698.6
	350195.9	12773833.1	697.6
	350184.6	12773839.6	698.8
	350174.0	12773848.1	702.0
	350172.4	12773850.5	702.8
	350170.4	12773852.5	703.6
	350165.5	12773855.5	704.8
	350153.0	12773860.9	705.7
	350147.1	12773864.5	706.5
	350145.0	12773866.1	706.9
T10	350156.0	12773086.1	710.2
	350153.0	12773086.7	709.7
	350141.0	12773085.4	705.1
	350128.0	12773084.9	704.8
	350114.1	12773084.5	704.5
	350100.7	12773084.1	704.4
	350086.5	12773083.5	704.2
	350071.8	12773082.8	704.1
	350057.3	12773082.2	704.2
	350044.3	12773081.4	704.1
	350030.0	12773080.8	703.4
	350016.9	12773079.8	702.8
	350004.7	12773080.7	702.5
	349993.3	12773080.3	702.5
	349988.7	12773080.6	702.2
	349988.1	12773080.6	701.7
	349988.6	12773080.5	702.1
	349986.4	12773081.0	700.5
	349985.6	12773080.8	700.1
	349978.5	12773083.2	699.3
	349935.9	12773079.3	699.4
	349962.2	12773081.2	697.9
	349869.4	12773074.4	698.2
	349843.4	12773074.7	699.5
	349836.7	12773075.2	701.8
	349835.7	12773075.1	702.2
	349832.6	12773074.7	703.4
	349827.5	12773074.1	705.3
	349823.2	12773073.8	706.5

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Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table 1 — Post-Construction Bank Monitoring Transect Data at the Former Plainwell Impoundment Area

Transect	Northing	Easting	Elevation (ft)
T11	350551.4	12772530.5	709.4
	350545.4	12772522.9	706.4
	350539.7	12772511.8	706.5
	350533.8	12772503.1	705.9
	350526.8	12772492.5	705.4
	350519.9	12772481.3	704.7
	350513.6	12772470.3	704.0
	350508.0	12772460.1	703.5
	350500.2	12772450.0	702.6
	350494.2	12772439.7	702.2
	350488.7	12772430.9	701.7
	350487.1	12772428.7	701.2
	350486.1	12772427.5	699.7
	350485.6	12772426.8	699.0
	350484.5	12772423.6	698.6
	350475.4	12772410.3	697.0
	350436.6	12772346.2	692.7
	350437.0	12772346.7	692.6
	350425.1	12772330.0	694.7
	350422.8	12772330.1	694.1
	350415.2	12772316.8	700.4
	350414.0	12772315.6	701.2
	350412.9	12772315.3	701.6
	350407.9	12772307.2	703.3
	350402.0	12772299.0	705.2
	350397.1	12772290.8	706.3
	350393.2	12772284.0	707.5
	350390.3	12772277.6	709.0
	350389.2	12772276.2	709.5
T12	349802.7	12776739.7	712.0
	349802.5	12776727.1	711.7
	349795.9	12776715.1	711.7
	349789.1	12776703.6	711.3
	349783.8	12776691.8	712.0
	349780.3	12776680.9	711.9
	349776.2	12776673.1	711.8
	349775.2	12776671.2	711.3
	349774.7	12776670.6	709.9
	349773.8	12776669.5	708.2
	349772.2	12776666.2	707.4
	349768.8	12776660.5	707.4
	349765.3	12776647.8	707.8
	348216.6	12777473.7	714.6
	349812.6	12776759.6	712.0
	349816.8	12776767.0	711.6
	349821.6	12776776.7	711.4
	349828.8	12776790.4	712.2
	349836.5	12776805.2	712.1
	349844.0	12776820.1	712.3
	349848.2	12776831.6	712.1
	349852.3	12776838.2	713.0
	349853.4	12776836.6	712.8

Notes:

1. Data collected by Prein & Newhof during the week of March 26, 2012.
2. Data collected using a mobile global positioning system rover unit.
3. Vertical datum is National Geodetic Vertical Datum of 1929 (NGVD 29).
Horizontal datum is State Plane North American Datum of 1983, Michigan South Zone (2113), International Feet.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table 2 — Post-Construction Bank Monitoring Transect Data at the Plainwell No. 2 Dam Area

Transect	Northing	Easting	Elevation (ft)
T1	339743.0	12784843.4	726.9
	339740.3	12784845.5	726.7
	339735.0	12784851.5	725.7
	339729.4	12784856.7	725.2
	339722.2	12784862.5	725.1
	339717.3	12784866.7	725.4
	339713.5	12784869.5	725.2
	339712.7	12784870.0	725.0
	339711.2	12784871.2	724.5
	339709.7	12784872.8	723.9
	339707.8	12784874.8	723.0
	339698.0	12784884.0	722.1
	339683.7	12784896.2	721.8
	339488.5	12784103.8	726.1
T2	339483.7	12784102.4	725.9
	339477.1	12784097.7	725.7
	339469.2	12784093.5	725.3
	339463.3	12784089.6	724.7
	339459.0	12784087.2	724.4
	339457.4	12784086.1	724.1
	339455.8	12784083.7	723.6
	339450.0	12784082.2	722.1
	339434.6	12784079.0	720.6
	339420.4	12784069.0	720.2
	339709.4	12783726.5	725.9
	339707.4	12783724.9	725.0
T3	339704.4	12783722.8	724.3
	339700.8	12783720.6	724.3
	339699.7	12783719.2	724.0
	339698.5	12783718.7	724.0
	339696.6	12783717.8	723.2
	339694.7	12783715.6	723.1
	339682.3	12783706.6	721.1
	339665.3	12783700.8	721.1
	340301.0	12783879.3	725.9
	340297.1	12783876.5	725.0
T4	340291.9	12783873.3	724.7
	340286.1	12783869.7	725.0
	340281.9	12783867.9	724.3
	340280.7	12783867.3	723.7
	340278.7	12783865.7	722.9
	340273.1	12783863.0	721.5
	340250.3	12783857.0	717.8
	340462.6	12783383.4	724.4
	340456.8	12783382.1	724.3
T5	340450.2	12783379.6	724.1
	340443.5	12783377.5	724.0
	340437.4	12783375.0	724.0
	340434.9	12783373.1	723.9
	340434.3	12783372.5	723.6
	340427.4	12783373.6	721.6
	340422.9	12783367.1	721.4
	340400.1	12783357.2	719.5
	340356.5	12782806.3	725.7
	340354.5	12782812.9	725.2
T6	340353.8	12782820.6	725.1
	340352.1	12782827.9	724.7
	340350.4	12782834.1	724.3
	340350.0	12782835.8	723.9
	340351.3	12782838.2	723.5
	340349.0	12782839.1	722.8
	340348.0	12782842.7	722.7
	340347.3	12782845.0	722.3
	340343.7	12782856.2	718.9
	340343.7	12782870.6	719.5

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Table 2 — Post-Construction Bank Monitoring Transect Data at the Plainwell No. 2 Dam Area

Transect	Northing	Easting	Elevation (ft)
T7	340686.9	12783006.8	724.6
	340681.7	12783005.7	724.1
	340674.4	12783005.6	724.1
	340667.4	12783004.6	724.3
	340660.9	12783002.4	724.3
	340658.2	12783001.6	724.3
	340657.0	12783002.3	723.3
	340656.4	12783001.3	722.6
	340654.8	12783001.4	721.6
	340648.8	12782998.6	720.0
	340635.8	12782991.8	719.5
	340621.2	12782995.6	719.5
	340723.2	12782332.7	724.6
T8	340727.7	12782334.4	724.3
	340734.5	12782336.0	724.0
	340740.7	12782338.0	723.6
	340747.4	12782340.5	723.2
	340750.5	12782342.1	722.5
	340760.4	12782342.6	721.6
	340771.6	12782345.2	719.3
	340777.3	12782350.3	718.9
	340728.0	12781734.6	723.5
	340732.9	12781737.3	723.6
T9	340738.7	12781741.5	723.6
	340744.2	12781743.9	723.4
	340750.8	12781747.0	723.4
	340756.7	12781751.1	723.4
	340758.6	12781751.7	723.3
	340760.9	12781752.8	723.0
	340766.2	12781756.0	723.1
	340773.0	12781760.4	722.9
	340779.4	12781764.1	722.6
	340789.5	12781770.3	722.1
	340794.0	12781773.1	721.3
	340796.8	12781772.4	720.5
	340805.6	12781775.7	719.1
	340918.3	12781679.2	724.6
	340914.3	12781683.6	723.9
T10	340912.0	12781688.2	723.8
	340909.2	12781693.6	723.4
	340907.7	12781696.2	723.1
	340904.9	12781701.3	723.2
	340903.7	12781707.1	723.0
	340887.8	12781730.3	718.7
	340891.9	12781716.2	720.6
	340895.4	12781711.1	722.6
	341174.8	12782026.9	723.5
	341170.7	12782021.4	723.4
T11	341167.5	12782016.9	723.3
	341180.2	12782034.5	724.1
	341178.4	12782031.8	723.6
	341166.7	12782015.5	723.4
	341165.9	12782014.3	723.1
	341164.7	12782012.5	722.5
	341163.4	12782010.3	722.1
	341160.5	12782005.1	720.8
	341149.9	12781995.5	718.1
	341145.5	12781990.2	719.8
	341541.3	12781749.0	720.1
	341545.0	12781752.6	719.0
	341512.6	12781711.7	723.7
T12	341517.4	12781718.4	723.3
	341520.5	12781723.3	723.0
	341522.8	12781726.9	722.9
	341525.7	12781730.5	722.7
	341511.5	12781708.9	724.1
	341527.9	12781733.8	722.0
	341530.5	12781738.5	721.9

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Table 2 — Post-Construction Bank Monitoring Transect Data at the Plainwell No. 2 Dam Area

Transect	Northing	Easting	Elevation (ft)
T13	341760.1	12780970.2	718.8
	341759.7	12780963.1	720.9
	341738.0	12780933.2	724.7
	341738.5	12780935.6	724.3
	341741.8	12780940.1	724.1
	341746.1	12780945.9	724.0
	341749.1	12780951.8	723.8
	341752.1	12780956.0	723.4
	341753.0	12780957.1	723.2
	341754.0	12780958.4	722.8
	341755.1	12780959.6	722.2
	341756.5	12780961.1	721.5
	341756.7	12780960.4	721.7
	341771.6	12780981.4	716.8
T14	341958.3	12780849.3	721.2
	341959.4	12780855.5	719.9
	341939.7	12780822.1	723.1
	341940.9	12780824.3	722.6
	341943.7	12780829.1	722.6
	341945.8	12780831.2	722.6
	341949.0	12780835.6	722.3
	341952.1	12780840.0	722.1
	341954.5	12780845.8	721.7
	341971.3	12780862.9	719.5
	341978.0	12780868.0	719.5

Notes:

1. Data collected by Prein & Newhof during the week of March 26, 2012.
2. Data collected using a mobile global positioning system rover unit.
3. Vertical datum is National Geodetic Vertical Datum of 1929 (NGVD 29).
Horizontal datum is State Plane North American Datum of 1983, Michigan South Zone (2113), International Feet.

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Table 3 — Area 2/Otsego City Impoundment Phase 2 Investigation - Samples Submitted for Supplemental Non-PCB Analysis

Location	Sample ID	Depth Interval (inches)	Date Collected	Media	Analysis	Notes ¹
OCTBS-02	K26755	6 - 12	10/11/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-48	K26760	6 - 12	10/12/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-58	K26794	57 - 60	10/12/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-63	K26805	12 - 24	10/12/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-73 ²	K26813	19 - 27	10/12/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	Sample jar for PCDD/PCDF analysis was broken during shipping. TestAmerica determined the sample to be intact and suitable for analysis.
OCIFP-78	K26827	31 - 35	10/13/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	Sample jar for PCDD/PCDF analysis was broken during shipping. Test America determined the sample to be intact and suitable for analysis.
OCIFP-83	K26838	12 - 24	10/13/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-102	K26856	36 - 40	10/14/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-08	K27005	0 - 4	10/19/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-23	K27024	24 - 36	10/19/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-33	K27030	29 - 37	10/19/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCTBS-07	K27161	53 - 66	10/21/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-38	K27188	0 - 6	10/25/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-43	K27197	12 - 20	10/25/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-120	K27206	7 - 14	10/25/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCTBS-27	K27222	14 - 23	10/25/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCTBN-21	K27257	35 - 42	10/26/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCTBS-22	K27271	31 - 45	10/26/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCTBS-26	K27377	63 - 73	10/26/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCIFP-134	K27403	35 - 42	10/27/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCTBN-16	K27419	24 - 32	10/27/2011	Soil	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCISED-18	K57038	0 - 5	11/1/2011	Sediment	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCISED-03	K57119	46 - 55	11/2/2011	Sediment	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCISED-23	K57123	12 - 27	11/2/2011	Sediment	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCISED-53	K57196	6 - 12	11/3/2011	Sediment	SVOCs/Pesticides/Metals, PCDD/PCDF	Sample jar for SVOCs/Pesticides/Metals analysis was broken during shipping. TestAmerica determined the sample to be intact and suitable for analysis.
OCISED-38	K57241	0 - 6	11/3/2011	Sediment	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCISED-48	K57248	6 - 12	11/3/2011	Sediment	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCISED-63	K57292	6 - 13	11/4/2011	Sediment	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCISED-73	K57294	6 - 12	11/4/2011	Sediment	SVOCs/Pesticides/Metals, PCDD/PCDF	
OCISED-68	K57308	21 - 25	11/4/2011	Sediment	SVOCs/Pesticides/Metals, PCDD/PCDF	

Notes:

¹ - Since sample was intact in the broken jars, laboratory performed required analyses on these samples

² - Since sample jar for K26814 was broken, K26813 was submitted for analysis. This sample was selected from the same PCB concentration range as K26814.

PCDD/PCDF = Polychlorinated dibenzo-p-dioxin/polychlorinated dibenzofuran

SVOCs = Semivolatile Organic Compounds.

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Table 4 — Area 2/Otsego City Impoundment Phase 2 Investigation - Remaining Archived Samples

Location	Interval (in)	Sample ID ¹	Duplicate	MS/MSD	Media	Notes ²
OCTBS-02	0 - 2	K26753			Soil	
	2 - 6	K26754			Soil	
	12 - 24	K26756			Soil	
	24 - 32	K26757			Soil	
	32 - 45	K26758			Soil	
OCIFP-48	0 - 6	K26759			Soil	
	12 - 23	K26761			Soil	
	23 - 31	K26762			Soil	
OCIFP-58	0 - 6	K26787			Soil	
	6 - 12	K26788			Soil	
	12 - 24	K26789			Soil	
	24 - 28	K26790			Soil	
	32 - 44	K26791			Soil	
	44 - 55	K26792			Soil	
	55 - 57	K26793			Soil	
OCIFP-68	0 - 6	K26795			Soil	
	6 - 12	K26796			Soil	
	12 - 24	K26797			Soil	
	24 - 36	K26798			Soil	
	36 - 48	K26799			Soil	
	48 - 60	K26800	K26801		Soil	
	60 - 66	K26802			Soil	
OCIFP-63	0 - 6	K26803			Soil	
	6 - 12	K26804			Soil	
	24 - 32	K26806			Soil	
	32 - 40	K26807	x		Soil	
	40 - 44	K26808			Soil	
	44 - 49	K26809			Soil	
OCIFP-73	0 - 6	K26810			Soil	
	6 - 12	K26811			Soil	
	12 - 19	K26812			Soil	
	27 - 35	K26814			Soil	Jar was broken; however, sample was intact. Jar was transferred to Ziploc bag, which was placed back in the freezer.
	35 - 44	K26815			Soil	
	48 - 60	K26816			Soil	Jar was broken; however, sample was intact. Jar was transferred to Ziploc bag, which was placed back in the freezer.
OCIFP-78	0 - 6	K26823			Soil	
	6 - 12	K26824			Soil	
	12 - 24	K26825			Soil	
	24 - 31	K26826			Soil	
	35 - 44	K26828	x		Soil	
	44 - 54	K26829			Soil	Jar was broken; however, sample was intact. Jar was transferred to Ziploc bag, which was placed back in the freezer.

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Table 4 — Area 2/Otsego City Impoundment Phase 2 Investigation - Remaining Archived Samples

Location	Interval (in)	Sample ID ¹	Duplicate	MS/MSD	Media	Notes ²
OCIFP-88	0 - 6	K26830			Soil	
	6 - 12	K26831			Soil	
	12 - 24	K26832			Soil	
	24 - 36	K26833	K26834		Soil	
	36 - 41	K26835			Soil	
OCIFP-83	0 - 6	K26836			Soil	
	6 - 12	K26837			Soil	
	24 - 37	K26839			Soil	
OCIFP-102	0 - 6	K26852			Soil	
	6 - 12	K26853			Soil	
	12 - 24	K26854			Soil	
	24 - 36	K26855			Soil	
	40 - 48	K26857			Soil	
OCIFP-98	0 - 6	K26858			Soil	
	6 - 15	K26859			Soil	
	15 - 19	K26860			Soil	
	19 - 28	K26861	K26862		Soil	
	28 - 38	K26863			Soil	
OCIFP-93	0 - 6	K26864			Soil	
	6 - 12	K26865			Soil	
	12 - 25	K26866			Soil	
	25 - 28	K26867			Soil	
	28 - 37	K26868			Soil	
	37 - 47	K26869			Soil	
OCIFP-03	0 - 6	K26931			Soil	
	6 - 12	K26932			Soil	
	12 - 24	K26933	x		Soil	
	24 - 39	K26934			Soil	
	39 - 53	K26935	K26936		Soil	
	53 - 66	K26937			Soil	
OCTBN-03	0 - 6	K26988			Soil	
	6 - 11	K26989			Soil	
	18 - 24	K26990			Soil	
	24 - 36	K26991			Soil	
	36 - 53	K26992			Soil	
	53 - 65	K26993			Soil	
OCTBN-06	0 - 6	K26994			Soil	
	6 - 17	K26995			Soil	
	17 - 24	K26996			Soil	
	24 - 36	K26997	x		Soil	
	36 - 44	K26998			Soil	
	44 - 54	K26999			Soil	

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Table 4 — Area 2/Otsego City Impoundment Phase 2 Investigation - Remaining Archived Samples

Location	Interval (in)	Sample ID ¹	Duplicate	MS/MSD	Media	Notes ²
OCIFP-13	0 - 7	K27000			Soil	
	7 - 12	K27001			Soil	
	12 - 21	K27002			Soil	
	21 - 36	K27003	x		Soil	
	36 - 43	K27004			Soil	
OCIFP-08	4 - 12	K27006			Soil	
	12 - 21	K27007			Soil	
	21 - 27	K27008			Soil	
	27 - 43	K27009			Soil	
	43 - 52	K27010			Soil	
OCIFP-18	0 - 7	K27011			Soil	
	7 - 13	K27012			Soil	
	18 - 21	K27013			Soil	
OCIFP-28	0 - 6	K27014			Soil	
	6 - 11	K27015			Soil	
	12 - 24	K27016			Soil	
	24 - 36	K27017	K27018		Soil	
	36 - 41	K27019			Soil	
	41 - 49	K27020			Soil	
OCIFP-23	0 - 4	K27021			Soil	
	4 - 11	K27022			Soil	
	11 - 24	K27023			Soil	
	36 - 45	K27025			Soil	
	45 - 57	K27026			Soil	
OCIFP-33	0 - 5	K27027			Soil	
	5 - 12	K27028			Soil	
	12 - 26	K27029			Soil	
	37 - 46	K27031			Soil	
	46 - 51	K27032			Soil	
OCIFP-53	0 - 6	K27033			Soil	
	6 - 10	K27034			Soil	
	10 - 21	K27035			Soil	
	21 - 32	K27036			Soil	
	32 - 41	K27037			Soil	
	41 - 54	K27038			Soil	
OCTBS-07	0 - 6	K27155			Soil	
	6 - 12	K27156			Soil	
	12 - 22	K27157			Soil	
	25 - 36	K27158			Soil	
	36 - 45	K27159			Soil	
	45 - 53	K27160			Soil	
	66 - 80	K27162			Soil	

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Table 4 — Area 2/Otsego City Impoundment Phase 2 Investigation - Remaining Archived Samples

Location	Interval (in)	Sample ID ¹	Duplicate	MS/MSD	Media	Notes ²
OCIFP-107	0 - 8	K27172			Soil	
	12 - 18	K27173			Soil	
	18 - 28	K27174			Soil	
	28 - 42	K27175			Soil	
OCIFP-111	0 - 7	K27180			Soil	
	12 - 23	K27181	x		Soil	
	23 - 27	K27182			Soil	
OCIFP-38	0 - 6	See Note 1	K27189		Soil	
	6 - 10	K27190			Soil	
	13 - 19	K27191			Soil	
	19 - 25	K27192			Soil	
	25 - 29	K27193			Soil	
	29 - 39	K27194	x		Soil	
OCIFP-43	0 - 5	K27195			Soil	
	5 - 12	K27196			Soil	
	26 - 36	K27198			Soil	
	36 - 45	K27199			Soil	
	45 - 49	K27200			Soil	
	49 - 61	K27201	K27202		Soil	
	61 - 69	K27203			Soil	
	69 - 81	K27204			Soil	
OCIFP-120	0 - 7	K27205			Soil	
	14 - 28	K27207	x		Soil	
	28 - 32	K27208			Soil	
	32 - 39	K27209			Soil	
	0 - 6	K27220			Soil	
OCTBS-27	6 - 10	K27221			Soil	
	23 - 36	K27223			Soil	
	36 - 43	K27224			Soil	
	43 - 55	K27225			Soil	
	55 - 66	K27226			Soil	
	0 - 7	K27227			Soil	
OCTBN-11	7 - 12	K27228			Soil	
	12 - 17	K27229			Soil	
	19 - 32	K27230			Soil	
	32 - 44	K27231	K27232		Soil	
	44 - 52	K27233			Soil	
	52 - 64	K27234			Soil	
	64 - 74	K27235			Soil	

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Table 4 — Area 2/Otsego City Impoundment Phase 2 Investigation - Remaining Archived Samples

Location	Interval (in)	Sample ID ¹	Duplicate	MS/MSD	Media	Notes ²
OCTBS-17	0 - 5	K27236			Soil	
	5 - 12	K27237			Soil	
	14 - 24	K27238		x	Soil	
	24 - 35	K27239			Soil	
	35 - 48	K27240			Soil	
	48 - 56	K27241			Soil	
	56 - 61	K27242			Soil	
	61 - 68	K27243			Soil	
OCTBN-31	0 - 7	K27244			Soil	
	7 - 13	K27245			Soil	
	15 - 30	K27246			Soil	
	30 - 40	K27247			Soil	
	40 - 48	K27248			Soil	
	48 - 58	K27249	K27250		Soil	
	58 - 68	K27251			Soil	
	68 - 83	K27252			Soil	
OCTBN-21	0 - 6	K27253			Soil	
	6 - 12	K27254			Soil	
	15 - 25	K27255			Soil	
	25 - 35	K27256			Soil	
	42 - 50	K27258			Soil	
	50 - 65	K27259	x		Soil	
OCTBS-22	0 - 8	K27267			Soil	
	12 - 21	K27268			Soil	
	21 - 31	K27269	K27270		Soil	
	45 - 58	K27272			Soil	
OCTBS-26	0 - 4	K27372			Soil	
	4 - 13	K27373			Soil	
	19 - 31	K27374			Soil	
	31 - 44	K27375			Soil	
	44 - 63	K27376			Soil	
OCIFP-116	0 - 4	K27289			Soil	
	4 - 14	K27290			Soil	
	17 - 24	K27291			Soil	Jar was broken; however, sample was intact. Jar was transferred to Ziploc bag, which was placed back in the freezer.
	24 - 31	K27292			Soil	
	31 - 38	K27293			Soil	
	38 - 50	K27294			Soil	
	50 - 59	K27295			Soil	
	59 - 76	K27296	K27297		Soil	
	76 - 86	K27298			Soil	

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Table 4 — Area 2/Otsego City Impoundment Phase 2 Investigation - Remaining Archived Samples

Location	Interval (in)	Sample ID ¹	Duplicate	MS/MSD	Media	Notes ²
OCTBS-15	0 - 6	K27385			Soil	
	6 - 12	K27386			Soil	
	12 - 24	K27387			Soil	
	24 - 36	K27388		x	Soil	
	36 - 44	K27389			Soil	
	44 - 50	K27390			Soil	
	50 - 55	K27391			Soil	
OCIFP-125	55 - 60	K27392			Soil	
	0 - 6	K27393			Soil	
	6 - 16	K27394			Soil	
	17 - 28	K27395			Soil	
	28 - 40	K27396			Soil	
	40 - 48	K27397			Soil	
	48 - 53	K27398			Soil	
OCIFP-134	0 - 6	K27399			Soil	
	6 - 11	K27400			Soil	
	11 - 23	K27401			Soil	
	23 - 35	K27402			Soil	
	35 - 42	K27403			Soil	
	42 - 52	K27404		x	Soil	
OCTBS-32	0 - 8	K27411			Soil	
	8 - 13	K27412			Soil	
	13 - 20	K27413			Soil	
	29 - 25	K27414			Soil	
OCTBN-16	0 - 6	K27415			Soil	
	6 - 11	K27416			Soil	
	11 - 24	K27417	K27418		Soil	
	24 - 32	K27419			Soil	
	32 - 45	K27420			Soil	
OCISED-18	5-10	K57039			Sediment	
	10-16	K57040			Sediment	
	16-27	K57041			Sediment	
	27-33	K57042			Sediment	
	0-6	K57107			Sediment	
OCISED-13	6-12	K57108			Sediment	
	12-23	K57109			Sediment	
	23-31	K57110			Sediment	
	31-38	K57111			Sediment	
	38-46	K57112			Sediment	

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Table 4 — Area 2/Otsego City Impoundment Phase 2 Investigation - Remaining Archived Samples

Location	Interval (in)	Sample ID ¹	Duplicate	MS/MSD	Media	Notes ²
OCISED-03	0-6	K57113			Sediment	
	6-12	K57114			Sediment	
	12-18	K57115			Sediment	
	18-33	K57116		x	Sediment	
	33-46	K57117	K57118		Sediment	
	55-64	K57120			Sediment	
OCISED-23	0-6	K57121			Sediment	
	6-12	K57122			Sediment	
	27-39	K57124			Sediment	
OCISED-08	0-6	K57125			Sediment	
	6-12	K57126			Sediment	
OCISED-43	0-4	K57186			Sediment	
	4-12	K57187			Sediment	
	12-19	K57188			Sediment	
OCISED-53	0-6	K57195			Sediment	
	12-24	K57197			Sediment	
	24-36	K57198			Sediment	
	36-42	K57199			Sediment	
OCISED-33	0-6	K57205			Sediment	
	6-13	K57206			Sediment	
	13-26	K57207			Sediment	
	26-39	K57208			Sediment	
	39-49	K57209			Sediment	
OCISED-28	0-8	K57210			Sediment	
	8-13	K57211			Sediment	
	13-26	K57212			Sediment	
OCISED-38	6-12	K57242			Sediment	
	12-21	K57243			Sediment	
	21-31	K57244	K57245		Sediment	
	31-41	K57246			Sediment	
OCISED-48	0-6	K57247			Sediment	
	12-20	K57249			Sediment	
	20-33	K57250			Sediment	
	33-42	K57251			Sediment	
OCISED-63	0 - 6	K57291			Sediment	
OCISED-73	0 - 6	K57293			Sediment	
	12 - 17	K57295			Sediment	
	17 - 31	K57296			Sediment	
	31 - 36	K57297			Sediment	
OCISED-68	0 - 5	K57305			Sediment	
	5 - 14	K57306	x		Sediment	
	14 - 21	K57307			Sediment	
	21 - 25	See Note 1	K57309		Sediment	Sample was contaminated due to broken jar. Sample material placed in the freezer in a Ziploc bag, marked for disposal.

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Table 4 — Area 2/Otsego City Impoundment Phase 2 Investigation - Remaining Archived Samples

Location	Interval (in)	Sample ID ¹	Duplicate	MS/MSD	Media	Notes ²
OCISED-78	0 - 6	K57430			Sediment	
	6 - 12	K57431			Sediment	
	12 - 20	K57432			Sediment	Sample was contaminated due to broken jar. Sample material placed in the freezer in a Ziploc bag, marked for disposal.
	20 - 32	K57433			Sediment	
	32 - 44	K57434			Sediment	
	44 - 57	K57435			Sediment	
	57 - 65	K57436			Sediment	
OCISED-58	0-4	K57450			Sediment	
	4-8	K57451			Sediment	

Notes:

1 - Original samples K27189 and K57309 have already been submitted for supplemental non-PCB analysis as described in Table 1.

2 - Sample jars were broken due to expansion of water in the sample.

MS/MSD = Matrix Spike/Matrix Spike Duplicate.